Experimental & Applied Acarology, 9 (1990)
Elsevier Science Publishers B.V., Amsterdam

Contents of *Experimental & Applied Acarology*, Volume 9

VOL. 9 NOS. 1,2 **AUGUST 1990**

Stimulation of egg production in the grain mite *Acarus siro* by the juvenile hormone analogue fenoxycarb
B.B. Thind and J.P. Edwards (Slough, Great Britain) 1
Effect of sex-ratio on multiplication of the two-spotted spider mite as affected by leaf nitrogen
B. Wermelinger and V. Delucchi (Zürich, Switzerland) 11
Cholinesterase inhibition in the bulb mite *Rhizoglyphus echinopus* (Acari: Acaridae) in relation to the acaricidal action of organophosphates and carbamates
D.D. Errampalli and C.O. Knowles (Columbia, MO, U.S.A.) 19
Sampling strategies for assessing the intra-plant density of the cassava green mite (*Mononychellus tanajoa*): A case-study
G. Nachman, O.C. Pedersen, M. Münster-Swendsen and J. Tomkiewicz (Copenhagen, Denmark) 31
Stimuli inducing detachment of larval *Arrenurus danbyensis* (Hydrachnidia: Arrenuridae) from adult *Coquillettidia perturbans* (Diptera: Culicidae)
B.P. Smith and L.A. Laughland (Fredericton, N.B., Canada) 51
Anatomical organization of the tracheal system of *Varroa jacobsoni* (Acari: Varroidae)
D. Richard (Toulouse, France), M.E. Colin (Montfavet, France) and M. Lhomme (Toulouse, France) 63
The development of *Euvarroa sinhai* (Acarina: Mesostigmata), a parasitic mite of *Apis florea*, on *A. mellifera* worker brood
M.S. Mossadegh (Ahwaz, Iran) 73
Organ culture of ixodid-tick salvary glands
W.R. Kaufman (Edmonton, Alta., Canada) 79
Effect of 20-hydroxyecdysone on the salivary glands of the male tick, *Amblyomma hebraeum*
W.R. Kaufman (Edmonton, Alta., Canada) 87
A technique for quantitative evaluation of ectoparasitic mites and insects of domestic animals
K.Y. Mumcuoglu (Zürich, Switzerland) 97
Introduction, spread and subsequent disappearance of the brown ear-tick, *Rhipicephalus appendiculatus*, from the southern lowveld of Zimbabwe
R.A.I. Norval and B.D. Perry (Nairobi, Kenya) 103
House-dust mite (Pyroglyphidae) populations in mattresses, and their control by electric blankets
R. de Boer and L.P.S. van der Geest (Amsterdam, The Netherlands) 113
Effects of five insect growth regulators on laboratory populations of the North American house-dust mite, *Dermatophagoides farinae*
A.S. Downing, C.G. Wright and M.H. Farrier (Raleigh, NC, U.S.A.) 123

Short Communications
Effect of heat treatments on house-dust mites, *Dermatophagoides pteronyssinus* and *D. farinae* (Acari: Pyroglyphidae), in a mattress-like polyurethane foam block
R. de Boer (Amsterdam, The Netherlands) 131
Ultrastructure and distribution of intracellular rickettsia-like microorganisms in various organs of the laboratory-reared adult tick *Argas* (*Persicargas*) *arboreus* (Ixodoidea: Argasidae)
Samir M. El Shoura (Abha, Kingdom of Saudi Arabia) 137

Book Review
Applied acarology 145

Announcement 147

VOL. 9 NOS. 3,4 OCTOBER 1990

Influence of ground cover and herbicide treatments on *Tetranychus urticae* populations in peach orchards
R.L. Meagher, Jr. and J.R. Meyer (Raleigh, NC, U.S.A.) 149
Comparison of *Mononychellus progresivus* and *Tetranychus urticae* as prey for five species of phytoseiid mites
N.C. Mesa, A.R. Braun and A.C. Bellotti (Cali, Colombia) 159
Effect of age at first mating on primary sex-ratio of the two-spotted spider mite
D.A. Krainacker and J.R. Carey (Davis, CA, U.S.A.) 169
Banks grass mite, *Oligonychus pratensis,* abundance on sorghum cultivars with different levels of nitrogen use and metabolism efficiency
T.L. Archer, A.B. Onken, E.D. Bynum, Jr. and G.C. Peterson (Lubbock, TX, U.S.A.) .. 177
The gall mite *Aceria cladophthirus.* 1. Life cycle, survival outside the gall and symptoms' expression on susceptible or resistant *Solanum dulcamara* plants
E. Westphal, F. Dreger and R. Bronner (Strasbourg, France) 183
Effect of prey stage on life-table attributes of a genetically manipulated strain of *Metaseiulus occidentalis* (Acari: Phytoseiidae)
S.J. Bruce-Oliver and M.A. Hoy (Berkeley, CA, U.S.A.) 201
Immunological responses of the rabbit host to infestation by the brown ear-tick *Rhipicephalus appendiculatus* (Acarina:Ixodidae)
B.H. Fivaz (Causeway, Zimbabwe) 219
Gross morphological changes of the salivary glands of *Ixodes ricinus* (Acari, Ixodidae) between bloodmeals in relation to active uptake of atmospheric water vapour
O. Kahl, R. Hoff and W. Knülle (Berlin, West Germany) 239
Population growth rates for *Amblyomma americanum* (Acari: Ixodidae) on *Bos indicus, B. taurus* and B. indicus × *B. taurus* cattle
D.R. Barnard (Gainesville, FL, U.S.A.) 259
Scototaxis and target perception in the camel tick *Hyalomma dromedarii*
M. Kaltenrieder (Neuchâtel, Switzerland) 267
Hemocytic encapsulation of implants in the tick *Dermacentor variabilis*
L.R. Eggenberger, W.J. Lamoreaux and L.B. Coons (Memphis, TN, U.S.A.) 279
Environmental actions of agrochemicals. 2. Histological effects of the herbicide/insecticide dinosebacetate (2-sec-butyl-4,6-dinitrophenyl acetate) on the spider mite *Tetranychus urticae* (Acari, Tetranychidae) reared on herbicide-treated bean plants

(*Phaseolus vulgaris*)
U. Mothes-Wagner, H.K. Reitze and K.-A. Seitz (Marburg, Federal Republic of Germany) 287

Book Review
Comparative Arachnology 311

Author Index 317

Subject Index 321

Contents of Experimental & Applied Acarology, Volume 9 325